

*What is claimed is*

Claims:

*Sub C17*  
1. A medicinal aerosol formulation comprising a particulate medicament, a fluorocarbon propellant and 6% to 25% w/w of the total formulation of a polar co-solvent, such formulation being substantially free of surfactant.

2. A medicinal aerosol formulation, comprising one or more particulate medicaments, one or more fluorocarbon or hydrocarbon or aliphatic gas propellants and 6% to 25% w/w of a polar co-solvent.

*Sub*  
3. A formulation as claimed in claim 1 or claim 2, wherein the medicament is an anti-allergic, a bronchodilator or an anti-inflammatory steroid.

*Sub B2*  
4. A formulation as claimed in claim 3, where the medicament is ephedrine, adrenaline, fenoterol, formoterol, isoprenaline, metaproterenol, phenylephrine, phenylpropandamine, pirbuterol, reproterol, rimiterol, terbutaline, isoetharine, orciprenaline, salbutamol, salmeterol, sodium cromoglycate, fluticasone, beclomethasone or similar molecule and any physiologically acceptable salt, solvate or ester of such compound.

5. A formulation, as claimed in claims 1-3, where the medicament is a salt of salbutamol.

*Sub A*  
6. A formulation, as claimed in claims 1-3, where the medicament is a salt of formoterol (sometimes called eformoterol).

7. A formulation according to any of claims 1 to 5, wherein the propellant is 1,1,1,2-tetrafluoroethane or 1,1,1,2,3,3,3-heptafluoro-n-propane.

8. A formulation according to any of claims 1 to 5,

where the co-solvent level is 10-15%.

A2  
9. A formulation according to any of claims 1-5, wherein the polar co-solvent is ethanol.

cut off  
10. A canister suitable for delivering a pharmaceutical aerosol formulation, which comprises a container capable of withstanding the vapour pressure of the propellant used, which container is closed with a metering valve and contains a pharmaceutical aerosol formulation which comprises particulate medicament, a propellant consisting all or part of fluorocarbon and 6% to 25% of a polar co-solvent, which is substantially ~~free of surfactant.~~

11. A canister according to claim 9, fitted into an adaptor with an aperture of 100-300 microns.

12. A product according to claims 9 and 10 where the medicament is as per claim 4.

13. A product according to claims 9-11, where the medicament is a salt of salbutamol.

Sub B3  
14. A product according to claims 9-11, where the medicament is a salt of formoterol.

15. A canister according to claims 9 and 10, which is actuated by a breath operated device.

16. A product according to claim 15, where the medicament is a salt of salbutamol.

17. A product according to claim 15, where the medicament is a salt of formoterol.

Add A4